

**PENGARUH PERBEDAAN SUBSTITUSI *PULP* TANDAN KOSONG  
KELAPA SAWIT (TKKS) TERHADAP *PULP* KARTON BEKAS PADA  
PEMBUATAN LEMBARAN KARTON**

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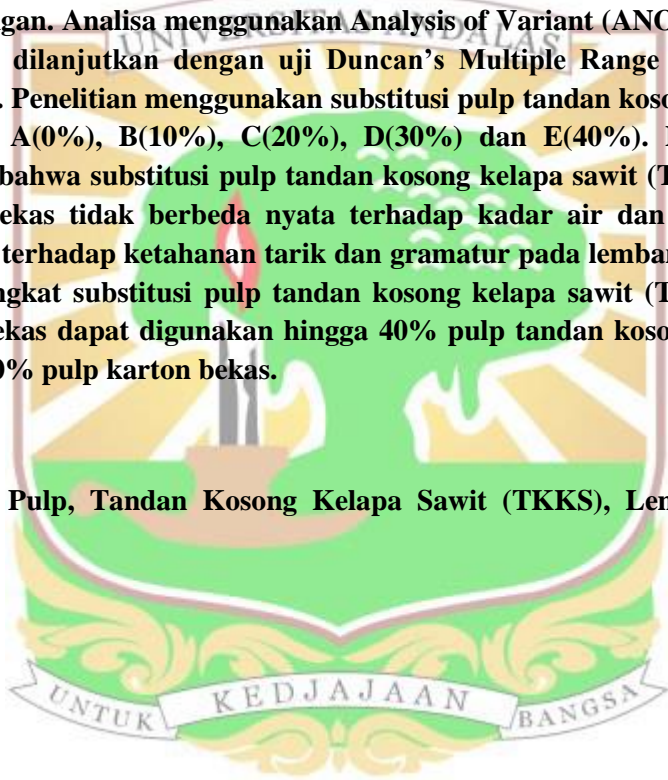
# **Pengaruh Perbedaan Substitusi Pulp Tandan Kosong Kelapa Sawit (TKKS) Terhadap Pulp Karton Bekas Pada Pembuatan Lembaran Karton**

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## **ABSTRAK**

Penelitian ini bertujuan untuk mengetahui pengaruh perbedaan substitusi pulp tandan kosong kelapa sawit (TKKS) terhadap pulp karton bekas pada pembuatan lembaran karton. Penelitian ini dilaksanakan dilaboratorium Teknologi Pertanian, Universitas Andalas, padang pada bulan oktober sampai bulan desember 2016. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan dan 3 kali ulangan. Analisa menggunakan Analysis of Variant (ANOVA), hasil yang berbeda nyata dilanjutkan dengan uji Duncan's Multiple Range Test (DNMRT) pada taraf 5%. Penelitian menggunakan substitusi pulp tandan kosong kelapa sawit (TKKS) yaitu A(0%), B(10%), C(20%), D(30%) dan E(40%). Hasil penelitian menunjukkan bahwa substitusi pulp tandan kosong kelapa sawit (TKKS) terhadap pulp karton bekas tidak berbeda nyata terhadap kadar air dan density namun berbeda nyata terhadap ketahanan tarik dan gramatur pada lembaran karton yang dihasilkan. Tingkat substitusi pulp tandan kosong kelapa sawit (TKKS) terhadap pulp karton bekas dapat digunakan hingga 40% pulp tandan kosong kelapa sawit (TKKS) dan 60% pulp karton bekas.

Kata kunci – **Pulp, Tandan Kosong Kelapa Sawit (TKKS), Lembaran Karton, Substitusi.**



# **The Effect of Empty Oil-Palm Fruit Bunches (EOPFB) of Pulp Substitution to Cardboard Pulp Waste in Making Cardboard Sheets**

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## **ABSTRACT**

This research aims to find out the influence of empty oil-palm fruit bunches (EOPFB) of pulp substitutes in different level compared to the pulp of cardboard sheet waste on the making of cardboard sheet. This research was carried out in the agricultural technology laboratory of the Andalas University, Padang start in October 2016 until December 2016. This research used a Complete Randomized Design (CRD) with 5 treatments and three repetitions. The Analysis used was an analysis Variant (ANOVA), in which significantly different results was carried on by using Duncan's Multiple Range Test (DNMRT) at the level of 5 %. The Research used several levels of empty palm bunches (EPB) of pulp substitutions i.e. A(0%), B (10%), C (20%), D (30%) and E (40%). The result of the research showed that the substitution of the empty oil-palm fruit bunches (EOPFB) of pulp compared to cardboard pulp waste does not significantly different in the moisture content and density yet significantly different in tensile strength and gramatur on produced cardboard sheets. Substitution level of empty oil-palm fruit bunches (EOPFB) of pulp compared to cardboard pulp waste, can be used up to 40% of the empty Palm bunches of pulp and 60% of pulp cardboard waste.

Keywords - Pulp, empty oil-palm fruit bunches, Cardboard, Substitution.

